## What is claimed is:

1. A glass composition comprising:

not smaller than 65wt.% and smaller than 74wt.%  $SiO_2$ ;

0-5 wt.% B<sub>2</sub>O<sub>3</sub>;

 $0.1\text{-}2.5 \text{ wt.}\% \text{ Al}_2\text{O}_3;$ 

not smaller than 0 wt.% and smaller than 2 wt.% MgO;

5-15 wt.% CaO;

0-10 wt.% SrO;

0-10 wt.% BaO wherein a total amount of MgO, CaO, SrO, and BaO is greater than 10 wt. % and not greater than 15 wt.%;

0-5 wt.% Li<sub>2</sub>O;

10-18 wt.% Na<sub>2</sub>O;

0-5 wt.%  $\rm K_2O$  wherein a total amount of  $\rm Li_2O,\, Na_2O$  and  $\rm K_2O$  is 10-

20 wt.%; and

0-0.40 wt.% TiO $_2$ 

 A glass composition as claimed in claim 1, wherein the glass composition comprises:

65-70 wt.% SiO<sub>2</sub>;

not smaller than 0 wt.% and smaller than 2 wt.%  $\mathrm{B_2O_3},$  and

MgO, CaO, SrO and BaO in a total amount of not smaller than 10 wt.% and smaller than 12 wt.%.

3. A glass composition as claimed in claim 1 or 2, wherein a total ion oxide (T-Fe $_2$ O $_3$ ) expressed as Fe $_2$ O $_3$  is 0.4-1.9 wt.% and,

the glass composition with a thickness from 1 to 6 mm has a solar energy transmittance of not greater than 60% and ultraviolet transmittance of not greater than 30% defined by ISO.

- 4. A glass composition as claimed in any one of claims 1 thorough 3, wherein the glass composition comprises 0.4-1 wt.% total ion oxide (T-  $Fe_2O_3$ ) expressed as  $Fe_2O_3$  and 0.01-0.40 wt.%  $TiO_2$  and has a visible light transmittance of not smaller than 70% measured by the illuminant "A" with a thickness from 1 to 6mm.
- A glass composition as claimed in any one of claims 1 thorough 4,
  wherein the glass composition comprises

0.4-0.65 wt.% total ion oxide (T-Fe $_2$ O $_3$ ) expressed as Fe $_2$ O $_3$  wherein a FeO ration expressed as Fe $_2$ O $_3$  against the total ion oxide (T-Fe $_2$ O $_3$ ) is 20-60 wt.%;

not smaller than 0.01wt.% and smaller than 0.20wt.%  $\rm TiO_2;$  and 0.1-2.0 wt.%  $\rm CeO_2,$  and

wherein the glass composition with a thickness from 3.5 to 5.0 mm has the visible light transmittance of not smaller than 70 %, the solar energy transmittance of not greater than 55% and the ultraviolet transmittance of not greater than 15% defined by ISO when measured by using the illuminant "A".

 A glass composition as claimed in any one of claims 1 thorough 4, wherein the glass composition comprises:

greater than 0.65wt.% and not greater than 0.90wt.% total ion oxide

(T-Fe<sub>2</sub>O<sub>3</sub>) expressed as Fe<sub>2</sub>O<sub>3</sub>;

0.01-0.40wt.% TiO2; and

greater than 1.4wt.% and not greater than 2.0wt.% CeO<sub>2</sub>,

a FeO ration expressed as  $Fe_2O_3$  against the total ion oxide (T-

 $Fe_2O_3$ ) is 20-60 wt.%, and

the glass composition with a thickness from 1.8 to 4.0 mm has the visible light transmittance of not smaller than 70 %, the solar energy transmittance of not greater than 55% and the ultraviolet transmittance of not greater than 15% defined by ISO when measured by using the illuminant "A".

7. A glass composition as claimed in any one of claims 1 thorough 6, wherein the glass composition comprises:

smaller than 0.005 wt.% CoO;

not greater than 0.01 wt.% NiO; and

not greater than 0.001 wt.% Se.

8.. A glass composition as claimed in any one of claims 1 thorough 3, wherein the glass composition comprises:

0.9-1.9 wt.% T-Fe<sub>2</sub>O<sub>3</sub>;

0.005-0.05 wt.% CoO;

0-0.2 wt.% NiO; and

0-0.005 wt.% Se.

A glass composition as claimed in claim 8, wherein the glass
 composition with a thickness from 1.8 to 5.0mm has the visible light

transmittance of 10-65%, the solar energy transmittance of not greater than 50% and the ultraviolet transmittance of not greater than 15% defined by ISO when measured by using the illuminant "A".

- 10. A glass composition as claimed in any one of claims 1 thorough 9, wherein the product of the mean linear expansion coefficient in a range of 50-350% and Young's modulus is 0.71-0.90 MPa/°C.
- 11. A glass composition as claimed in any one of claims 1 thorough 10, wherein the mean linear expansion coefficient in a range of 50-350% is  $80\times10^{-7}-110\times10^{-7}\%$ .
- 12. A glass composition as claimed in any one of claims 1 thorough 11, wherein the density measured at an ambient temperature is greater than 2.47g/cm³ and not greater than 2.65 g/cm³.